This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

04/22/2004 10:17

408-927-3375

ALMADEN IP LAW

PAGE 08/31

PAGE 02/22

Page 1 of 3

Docket No. ARC9-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

the spe	ecification of which is:	·
	altached hereto	
	and was amended on	
) hereb	by state that I have reviewed and understand ended by any amendment referred to above.	the contents of the above identified specification, including the claims,
Lackno	owledge the duty to disclose information which	ch is material to patentability as defined in 37 CFR §1.56.
I hereb certific	y claim foreign priority benefits under 35 USC ate, or §365(a) of any PCT international applic	§119(a-d) or §365(b) of any foreign application(s) for patent or inventor's ation which designated at least one country other than the United States, tking the box, any foreign application for patent or inventor's certificate, before that of the application on which priority is claimed.
Prior	Foreign Application(s):	Priority Not Claimed:
(Numbe	(Country)	(Dey/Month/Your Filed)
	r of Attorney.	
i herei Pateni	by appoint the following attorney(s) and/or ag t and Trademark Office connected therewith:	gent(s) to prosecute this application and to transact all business in the
	Thirumal R. Coca (#29,784) Daniel E. Johnson (#37,033)	Joseph P. Curtin (#34,571)
	Marc D. McSwain (#44,929)	
	Leonard T. Guzman (#46,308)	
	Mark McCabe (#53,291)	

BEST AVAILABLE COPY

04/22/2004 10:17

408-927-3375

ALMADEN IP LAW

PAGE 09/31 PAGE 03/22

Docket No. ARC9-2003-0013-US1

Page 2 of 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

идионияльного принципального принципа Address all correspondence to:

Address all telephone calls to:

Joseph P. Curtin (503) 296-8373

Joseph P. Curtin 1469 N.W. Morgan Lane Portland, OR 97229-5291

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are purishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may leopardize the validity of the application or any patent issued thereon. Full name of sole or first inventor: Martin Aureliano HASSNER thyentor's signature: 1229 Christobal Privado, Mountain View, California 94040 Residence: 1229 Christobal Privado Post Office Address: Mountain View, CA 94040 Citizenship: USA мания по применя применя применя на примена на применя на применя на применя на применя на применя на примена на примена Full name of accord inventor: Steven R. HETZLER Date: Inventor's signature: Residence: 246 Eleanor Avenue, Los Altos, California 94022 246 Eleanor Avenue Post Omce Address: Los Altos, CA 94022 Citizenship: USA *нательностинициальностинициальностинательностинательностинательностинательностинательностинательностинательност* Full name of third inventor: Tetsuya TAMURA Date* inventor's signature: Residence: 7-4-9 Tsukimino, Yamato, Kanagawa 242-0002 Japan Post Office Address: 7-4-9 Tsukimino Yamoto, Kanagawa 242-0002 Citizenship: Japan

BEST AVAILABLE COPY

Japan

Chizenship:

Docket No. ARC9-2003-0013-US1 Page 3 of 3 Full name of fourth inventor: Barry Marshall TRAGER Date: Inventor's signature: Residence: 348 Barway Drive, Yorktown Heights, NY 10598 348 Barway Drive Post Office Address: Yorktown Heights, NY 10598 Citizenship: USA Full name of fifth inventors Shmuel WINOGRAD Date: Inventor's signature: Residence: 235 Glendale Road, Scarsdale, NY 10583 Post Office Address: 235 Glendale Road Scarsdale, NY 10583 Citizonship: USA разититерительного полительного принципального принценей Full name of sixth inventor: Date: Inventor's signature: Residence: Post Office Address: Citizenship: *эттотатторун*творитеттикан принципальный принципал Full name of seventh inventor: Date: inventor's signature. Residence:

Post Othor Address:

BEST AVAILABLE COPY

04/22/2004 10:17

408-927-3375

ALMADEN IP LAW

PAGE 11/31

PAGE 05/22

Page 1 of 3

Docket No. ARC9-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

My residence, post office address and citizenahip are as stated helow next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

the spe	edification of which is:		
	attached hereto		
Ø	was filed on 10/20/2003 as United States Application Number or Pland was amended on	(
il heret	by state that I have reviewed and understand ended by any amendment referred to above	d the contents of the above identifi	ed specification, including the signals,
i ackn	ewiddge the duty to disclose information whi	ich is material to patentability as d	efined in 37 CFR §1.56.
certific listed or PC	by claim foreign priority benefits under 35 USC Late, or §365(a) of any PCT International application and have also identified below, by the characteristic application having a filing date. Foreign Application(s):	ecking the box, any foreign applicate before that of the application on	righ for patent or inventor's certificate.
(Numb	(Country)	(Day/Month/Year Filed)	
Powe	er of Attorney:		and to transact all business in the
i here Pater	by appoint the following attorney(s) and/or and Trademark Office connected therewith	1-	
•	Thirumal R. Coca (#29,784) Daniel E. Johnson (#37,033) Marc D. McSwain (#44,929) Leonard T. Guzman (#46,308)	Joseph P. Curtin (#34	
	Mark McCabe (#53,291)	BEST	AVAILABLE

ALMADEN IP LAW

PAGE 12/31 PAGE 06/22

Docket No. ARC9-2003-0013-US1

Page 2 of 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Address all telephone calls to:

Address all telephone calls to:

Joseph P. Curtin (503) 296-8373

Joseph P. Curtin 1469 N.W. Morgan Lane Portland, OR 97229-5291

and belief are believed to be true; and i statements and the like so made are punis States Code and that such willful false stat	herein of my own knowledge are true and the further that these statements were made thable by fine or Imprisonment, or both, unde thements may jeopardize the validity of the ap	er Section 1001 of Title 18 of the United optication or any patent issued thereon.
aumpuanaasmakmiamaaanaanummin	เมาแบบเมาและเ	INTERPROPRIENTARIA DE PROPRIENTA DE PROPRIENTA DE PROPRIENTA DE PROPRIENTA DE PROPRIENTA DE PROPRIENTA DE PROP
Full name of sole or first inventor: Martin	Aureliano HASSNER	
Inventor's signature:	Date;	
Residence: 1229 Christobal Privado,	Mountain View, California 94040	والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراع
Clitzenship: USA ///////////////////////////////////	Post Office Address. M	29 Christobal Privado buntain View, CA 94040 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Inventor's signatura: A A	Date: 3	12/2004
Residence: 246 Eleanor Avenue, Los	Altos, California 94022	
Citizenship: USA ###################################	Post Grice Address. Lo	G Eleanor Avenue is Altos. CA 94022
inventor's signature:	Deta:	
Residence: 7-4-9 Tsukimino, Yamato	, Kanagawa 242-0002 Japan	ر مساور المساور
Citizenship: Japan	Y	-4-9 Tsukimino amoto, Kanagawa 242-00∪≥ apan
		BEST AVAILABLE COP'

Full name of fourth inventor: Barry Marshall TRAGER

Full name of fifth inventor: Shmuel WINOGRAD

Residence: 235 Glendale Road, Scarsdale, NY 10583

Residence: 348 Barway Drive, Yorktown Heights, NY 10598

Page 3 of 3

inventor's signature:

Cilizonahip: USA

Inventor's signature:

Citizenship: USA

Inventor's signature:

Inventor's signature:

Residence:

Citizenship:

Residence:

Citizenship:

Full name of sixth inventor:

Full name of seventh inventor:

PAGE 13/31 PAGE 07/22

Docket No. ARC9-2003-0013-US1 Date: Post Office Address: 348 Barway Drive Yorktown Heights, NY 10598 иниматринатирания принципальной принципально Date: 235 Glendale Road Post Office Address: Scaradale, NY 10583 попирательного принципального принценти принценти принценти принценти принценти принценти принценти принценти п Date: Post Office Address: Date:

BEST AVAILABLE COPY

Post Office Address:

94/22/2004

PAGE

408-927-3375 ALMADEN IP LAW

08/22

Page 1 of 3

10:17

Docket No. ARC9-2003-0013-US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

инительного принципального принципал As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. i believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled GENERALIZED PARITY STRIPE DATA STORAGE ARRAY the specification of which is: attached hereto was filed on <u>10/20/2003</u> as United States Application Number or PCT International Application Number 10/689,814 _(if applicable). and was amended on. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56. Thereby claim foreign priority benefits under 35 USC §119(a-d) or §965(b) of any foreign application(s) for patent or inventor's confiscate, or 5365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is daimed. Priority Not Claimed: Prior Foreign Application(s): (Day/MonttVYear Filed) (Country) (Number) Power of Attorney. I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Joseph P. Curtin (#34,571) Thirumal R. Coca (#29,784) Daniel E. Johnson (#37,033) Marc D. McSwain (#44,929) Leunard T. Guzman (#46,308) Mark McCabe (#53,291)

BEST AVAILABLE COPY

04 O4-55:02:15bW:日本1:PW (株)

PAGE 15/31 PAGE 09/22

Docket No. ARC9-2003-0013-US

Page 2 of 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information

Joseph P. Curtin (503) 296-8373 Joseph P. Curtin 1469 N.W. Morgan Lane Portland, OR 97229-5291

I hereby deciare that an statements made herein of my demand and belief are believed to be true; and further that these s' statements and the like so made are punishable by fine or impi States Code and that such willful false statements may jeopan	tatements were ma risonment, or both, i	NUCEL SECTION IN I	C) IIII SOO US	O.III.
	primanamanninganam	nneumummummummum	pamenananan padabah	i proprienti di la constitui d
Full name of sola or first inventor: Martin Aureliano HASSN	ER			·
inventor's signaturo:	Date:			
Residence: 1229 Christobal Privado, Mountain View, C	alifornia 94040			
Cilizenship: USA	Post Office Address:	1229 Christobal Mountain View,	CA 94040	
mmumummmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	11414 1144 1144 1144 1144 1144 1144 1144 1144 1144 1144 1144 1144 1144 1144 1144	anuarmanna41maanuma	unnunnununununununun	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Inventoria algonature:	Date:			
Residence: 246 Eleanor Avenue, Los Altos, California	94022		·	· · · · · · · · · · · · · · · · · · ·
Citizensni¤ USA	Poet Office Address:	246 Eleanor Ave Los Altos, CA	nue 14022	
innering of third inventor: Telsuya TAMURA	(D)(B)()(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(HANGTININTININTINIAA MAKATINI	emannement en	WM&{WM
inventor's signature: Johnson Jamesa	Date:	Apr/201	'04	
Residence: 7-4-9 Tsukimino, Yamato, Kanagawa 242-0	002 Japan			
Gitzenenigi Japan	Post Office Address:	7-4-9 Tsukiming Yamoto, Kanag Japan	owa 242-000	ż

BEST AVAILABLE COPY

07-04-55:00:1560(治日本180 (株)

Page 3 of 8 Million Commission Co	annuaran mananan manan Mananan mananan manana	eneralitica)	umananananananananananananananananananan	Antiuttuuritt	maniin)
Inventor's signature:	Date:	<u> </u>	•	-,*	
rtesidence: 348 Barway Drive, Yorktown Heights, NY	10598				·
Citizenehio: USA เกษอยอกเกษาการทองการทองการทองการทองการการการการการการการการการการการการการก	Post Office Address:	Yorktow	way Drive in Heights, NY		100000
Pull name of fitth Inventor: Shmuel WINOGRAD	· · · · · · · · · · · · · · · · · · ·	·			
lavenior's dignatura;	Dale:				
Residence: 235 Glendale Road, Scarsdale, NY 10583	· .			· · · · · ·	
Cidzenahip: USA ប្រាយបានបានបានបានបានបានបានបានបានបានបានបានបានប		· Abdress:	235 Glendale I Scaredale, NY	10583	 Santanan
Full name of sixth inventor:					·
Inventor's signature:	Dates			· · · · · · · · · · · · · · · · · · ·	
Residence:				·	·
CiptonsNp:	Post Office Address				. "
nuntunungungungungungungungungungungungungun	ummanainemmani 	nammun	nanananananananananananananananananana	umunnuntuu	onnana)
invenior's signatures	'Date:	1,6			
The second secon		,			

Post Office Address:

BEST AVAILABLE COPY

409-927-3375

ALMADEN IP LAW

PAGE 17/31 PAGE 11/22

Docket No. ARC9-2003-0013-US1

Page 1 of 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ուսիցությանը արդագրայանը արդարիան արդարիան արդարի արդարան արդարի արդարի արդարի արդարի արդարի արդարի արդարի արդար As a below named inventor, I hereby declare that: My residence, poot office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled GENERALIZED PARITY STRIPE DATA STORAGE ARRAY the specification of which is: attached hereto was filed on 10/20/2003 as United States Application Number or PCT International Application Number 10/689,814 and was amended on. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any emendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.58. thereby claim foreign priority benefits under 35 USC §119(a-d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or \$365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any toreign application for patent or inventor's certificato, or PCT international application having a filing date before that of the application on which priority is claimed. Priority Not Claimed: 🗹 Prior Foreign Application(s): (Day/Month/Year Filed) (Country) (Number) Power of Attorney: I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Joseph P. Curtin (#34,571) Thirumal R. Coca (#29,784) Daniel E. Johnson (#37,033) Marc D. McSwain (#44,929) Leonard T. Guzman (#46,308) BEST AVAILABLE COPY Mark McCabe (#53,291)

PAGE 18/31 PAGE 12/22

Docket No. ARC9-2003-0013-US1

Page 2 of 3

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Address all telephone calls to:

Address all correspondence to:

Joseph P. Curtin (503) 296-8373

Joseph P. Curtin 1469 N.W. Morgan Lane Portland, OR 97229-5291

I hereby declare that all statements made he and belief are believed to be true; and fur statements and the like so made are punished States Code and that such willful false statements are management to the like so made are punished states. Full name of sole or first inventor: Martin Au	ther that these statements was the able by fine or imprisonment, or both, the nents may jeopardize the validity of the approximation of	inder Section 1001 of Title 18 of the United
Inventor's signature:	Date:	
Residence: 1229 Christobal Privado, Me		
Citizenship: USA	Post Office Address:	1229 Christobal Privado Mountain View, CA 94040
Inventor's signature:	Date:	
Residence: 246 Eleanor Avenue, Los Al	ltos, California 94022	
Citizenship: USA manusummunummunummunummunummunummunummun	Post Office Address.	246 Eleanor Avenue Los Altos, CA 94022
Inventor's signature:	Date:	
Residence: 7-4-9 Tsukimino, Yamato, K	Kanagawa 242-0002 Japan	
Citizensnip: Japan		7-4-9 Tsukimino Yamoto, Kanagawa 242-0002

BEST AVAILABLE COPY

Japan

Page 3 of 3							003-0013-US
нанананананананананананананана		HIBIOTO PARTICIO POR PARTICIO P	HANNAN KAN	mumm	1131114111111	ekemannara.	KUUUMAA
Full name of fourth inventor: Barry	Marshall TRAGER						
Inventor's signature: Barry	Trage	Date:	Ma	-oh	2,	200	4
Residence: 348 Barway Drive	forktown Heights, NY	10598					
Citizenship: USA		Post Office Addres	" Yorkt	own Ĥ	Drive leights ////////////////////////////////////	, NY 10	5 98 ####################################
Full name of fifth inventor: Shmuel	WINOGRAD						
Inventor's signature: 50	Virginal	Oate:	March	2,	200	s 44	
Residence: 235 Glendale Road,	Scarsdale, NY 10583						
Citizenship: USA ***********************************	าเกิดสายเหลือนเกิดสายเกิ		ffice Addres	" Scø	rsdale	late Road , NY 10	583
Inventor's signature:		Date:			, ·		
Residence:							
Citizenship:		Post Office Addre					•
<i>ипониционника и полицион и поли</i>	TADO DA TATO D	apaputan muun muusika		nnonom	yonnunggi	umumma	MATERIALIST (1911)
Full name of seventh inventors		ت دنده میبیدی بست نوان					. · ·
Inventor's Signature:		Date:					
Residence:							
Citizanchini		Post Office Addre	158:				

BEST AVAILABLE COPY

Form PTO-1595 RECORDATION FORM	11 S. Petent and Trademark Office			
OMB No. 0651-0027 (exp. 5/31/2002)	SONLY			
Tab settings ⇔⇔⇔ ▼ ▼	Y Y Y Y			
	Please record the attached original documents or copy thereof.			
Name of conveying party(ies):	2. Name and address of receiving party(ies)			
Martin A. HASSNER Barry M. Trager	Name: International Business Machines Corporation			
Steven R. HETZLER Shmuel WINOGRAD	Internal Address:			
Tetsuya TAMURA Additional name(s) of convcying party(les) attached? Yea ✓ No				
3. Nature of conveyance:	Street Address:			
✓ Assignment 🖳 Merger				
☐ Security Agreement ☐ Change of Name				
Cther				
03/02/04 03/02/04 04/20/04	City: Armonk State: NY Zip: 10504			
Execution Date: 03/02/04 03/02/04	Additional name(s) & address(es) attached? 💂 Yes 🗸 No			
4. Application number(s) or patent number(s):	03/02/04 03/02/04			
If this document is being filed together with a new applic	cation, the execution date of the application is: 04/20/04			
A. Patent Application No.(s)	B. Patent No.(s) 03/02/04			
·	03/02/04			
Additional incompany atta	ached? ☐ Yes ✓ No			
	6. Total number of applications and patents involved:			
concerning document should be mailed:	7. Total fee (37 CFR 3.41)\$_40			
Name:	7. Total lee (37 GFR 3.41)			
Joseph P. Curtin Internal Address:	୍ଲା Enclosed			
internal Address.	✓ Authorized to be charged to deposit account			
	8. Deposit account number:			
Street Address: 1469 N.W. Morgan Lane	09-0441			
City Portland State: OR Zip: 97229	(Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE	THIS SPACE			
9. Statement and signature,				
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy Is a true copy of the original document.				
Joseph P. Curtin, Reg. No. 34,571	4/22/04			
Name of Person Signing	Signature Date			
Total number of pages including cover	sheet, attachments, and documents:			

Mail documents to be recorded with required cover sheet information to:

Commissioner of Parents & Trademarks, Box Assignments Washington, D.G. 20231

24/31 14/22

Page 1 of 2

Docket ARC9-2003-0013-US1

ASSIGNMENT

Wh	ereas, liwe,	
(1)	Martin Aureliano HASSNER City of Mountain View	(2) Staven R. HETZLER City of Los Altos
	County of Santa Clara	County of Santa Clara
	State of California	State of California
(3)	Tetsuya TAMURA City of Yamato	(4) Barry Marshall TRACER City of Yorktown Heights
	County of	County of Westchester
	State of Kanagawa, Japan	State of New York
(5)	Shmuel WINOGRAD City of Scarsdale	(0) City of
	County of Westchesler	County of
	o. A. at New York	State of

have invented certain improvements in:

State of New York

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and executed a Declaration and	Power of Altorney for a United	States patent application therefor on
and executed a Declaration and (1) $3/2/6\%$	(2)	(3)
(4)	(5)	(6)

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereafter called IBM), desires to acquire the entire right, title and interest in the said application and Invention, and to any United States and foreign patents to be

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the flung of said United States application, and wa request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

ALMADEN IP LAW

04/22/2004 10:17 408-927-3375

Docket ARC9-2003-0013-US1

Pag	a 2 of 2	•
(1)	Inventor: Martin Aureliano HASSNER	City/State: SAN JOSE/CA Date 3/2/of
	Signature	Date
(2)	faventor Steven R. HETZLER	City/State:
	Signature	Date
(3)	Inventor: Tetsuya TAMURA	City/State:
	Signature	Date
(4)	Inventor: Barry Marshall TRAGER	City/State:
	Signature	Date
(5)	Inventor: Shmuel WINOGRAD	City/State:
	Signature	Date
(£)	Inventor:	City/State:
	Signature	Date

ALMADEN IP LAW

PAGE 26/31 PAGE 16/22

Docket ARC9-2003-0013-US1

Page 1 of 2

ASSIGNMENT

Wh	ereas, Ilwe,		
(1)	Martin Aureliano HASSNER City of Mountain View	(2) S	City of Los Altos
	County of Santa Clara		County of Santa Clara
	State of California		State of California
(3)	Tetsuya TAMURA City of Yamato	(4)	Barry Marshall TRAGER City of Yorktown Heights
	County of		County of Westchester
(5)	State of Kanagawa, Japan Significal WINOGRAD City of Scarsdale	(6)	State of New York City of
County of Westo	County of Westchester		County of
	State of New York		State of

have invented certain improvements In:

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and executed a Declaration and	Power of Attorney for a United Sta	ites patent application therefor on
(1)	(2) 3 - 3/2/10/3)	
(4)	(5)	

Whereas, INTERNATIONAL RUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereafter called IBM), desires to acquire the entire right, a place of business at Armonk, New York 10504 (hereafter called IBM), desires to acquire the entire right, and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor:

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filling of said United States application, and we countries, and all rights of priority resulting from the filling of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

04/22/2004 10:17

408-927-3375

ALMADEN IP LAW

PAGE 27/31

PAGE 17/22

ARC9-2003-0013-US1 Docket

Pag	g 2 of 2	24
(1)	Inventor: Martin Aureliano HASSNER	City/State:
	Signature	Date
(2)	Jovenior: Steven R. HETZLER	City/State: San Jose, (a Date 3/2/2004
	Signature A 12 15	Date
(3)	Inventor: Tetsuya TAMURA	City/State:
	Signature	Date
(A)	Inventor: Barry Mershall TRAGER	City/State:
	Signature	Dale
(5)	inventor: Shmuel WINOGRAD	City/State:
	Signature	Date
(£)	Inventor:	City/State:
		Date

408-927-3375

ALMADEN IP LAW

PAGE 19/22

Page 1 of 2

Docket ARC9-2003-0013-US1

ASSIGNMEN

Whereas, liwe, Steven R. HETZILER Martin Aureliene HASSNER City of Los Altos City of Mountain View County of Santa Clara County of Santa Clara State of California State of California Barry Marshall TRAGER **Tetsuya TAMURA** City of Yorktown Heights City of Yamato County of Westchester County of State of New York Stale of Kanagawa, Japan (5) Shmuel WINQGRAD City of City of Scarsdale County of Westchester County of State of New York State of

have invented certain improvements in:

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and .	executed a Declaration and	Power of Attorney for a United	States patent application therefor on
") <u></u>			(B)Apr./20/04
(4)	Marie	(5)	(6)

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereafter called ISM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereon is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM. Its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filling of said United States application, and wa request the Commissioner of Patents to Issue any Letters Patent granted upon the inventions set forth In cold application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

PAGE 19/22

04/22/2004 10:17 408-927-3375

Pag	e 2 of 2			Docket	AHC9-2003-0018-0
(1)	inventor:	Martin Aureliano HASSNER	City/State:		
	Clenatura		Date	<u></u> .	
(2)			City/State:		
·· .	Signaturv		Data	·	
(3)	inventor	Tetsuya TAMURA	Olly/State:	Yamat	0
· · ·	Signature	- Tetorge Francis	Dato	Apr 1201_0	04
•	,	Berry Marshall TRAGER	Chystete;	:	
	5igna t ure		Dale	· · · · · · · · · · · · · · · · · · ·	
(5)	Inventor:	Shmuel WINOGRAD	City/State:	•	
	Signature		Oato		
(e)	inventar:		Ohy/State:		
	Signotur	3	Date		

408-927-3375

ALMADEN IP LAW

PAGE 30/31

PAGE 20/22

Docket ARC9-2003-0013-US1

Page 1 of 2

ASSIGNMENT

Wh	crcas, liwe,		· <u></u>
(1)	Martin Aureliano HASSNER City of Mountain View	(2)	ven R. HETZLER City of Loc Altos
	County of Santa Clara		County of Santa Clara
	State of California		State of California
(3)	Tetsuya TAMURA City of Yamato	(4) Ba	ny Marshall TRAGER City of Yorkdown Heights
	County of		County of Westchester
(5)	State of Kanagawa, Japan Shmuci WINOGRAD City of Scarsdale	(6)	State of New York City of
	County of Westchester		County of
	State of New York		State of

have invented certain improvements in:

GENERALIZED PARITY STRIPE DATA STORAGE ARRAY

and executed a Declaration and	Power of Attorney for a United	States patent application therefor o
(1)	(2)	(3)
(1) March 2, 2004	(5) March 2, 2004	(6)

Whereae, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign potents to be obtained therefore

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filling of said United States application, and we countries, and all rights of priority resulting from the filling of said upon the inventions set forth in request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

ALMADEN IP LAW

PAGE 31/31 PAGE 21/22

ARC9-2003-0013-US1 Docket

Page	2 of 2	
(1)	Inventor: Martin Aureliano HASSNER	City/State:
	Signature	Date
(2)	Inventor: Steven R. HETZLER	City/State:
	Signature	Date
(3)	Inventor Tetsuya TAMURA	City/State:
	Signature	Date
(4)	Inventor: Barry Marshall TRAGER	City/State: Yorktown, NY
	Signature Barry Trags	Date Mirch 2, 2004
(5)	Inventor Shauri WINDGRAD	City/State: YORETOWN, NY
	Signature 50 ml Vinagrad	Date March 1, 1009
(6)	Inventor:	City/State:
	3ignatura	Date